BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: - Improvements to drains and Providing Asphalting to roads at Bhuvaneshwari nagara 9th and 10th main Surrounding in Ward No.14 Balagagunte

Est Cost:99.70 Lakhs

Job Code: 014-21-000009

Scanned with CamScanner

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಕಛೇರಿ

ಸಮುದಾಯ ಭವನ, 4ನೇ ಅಡ್ಡರಸ್ತೆ, ಜೈನ್ ದೇವಸ್ಥಾನ ರಸ್ತೆ, ಟಿ.ದಾಸರಹಳ್ಳಿ ಬೆಂಗಳೂರು-560057

~~~~ ಅಂದಾಜು ಪಟ್ಟಿಯೊಂದಿಗಿನ ವರದಿ ~~~~

ಕಾಮಗಾರಿಯ ಹೆಸರು: - Improvements to drains and Providing Asphalting to roads at Bhuvaneshwari nagara 9th main and 10th Main Surrounding in ward no.14 Balagagunte.

ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ :- 2020-21 ನೇ ಸಾಲಿನ ಜಿಬಿಎಂಪಿ ಪಿ ಕೋಡ್–3702,

****

ದಾಸರಹಳ್ಳಿ ಉಪವಿಭಾಗ ವಾರ್ಡ್ ನಂ.14ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ 2020-21ನೇ ಸಾಲಿನ ಪಾಲಿಕೆ ಅಯವ್ಯಯದ ಪಿ ಕೋಡ್-3702 ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ ಅಡಿಯಲ್ಲಿ ಮೇಲಿನ ಕಾಮಗಾರಿಯ ಜಾಬ್‌ಕೋಡ್ ಸಂಖ್ಯೆ 014-21-000009ರಲ್ಲಿ ರೂ..99.70 ಲಕ್ಷಗಳಿಗೆ ಅನುಮೋದನೆಗೊಂಡಿರುತ್ತದೆ.

ಜಿ.ಜಿ.ಎಂ.ಪಿ ವಾರ್ಡ್ ನಂ-14ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಭವನೇಶ್ವರಿನಗರದ 9ನೇ ಮುಖ್ಯರಸ್ತೆ ಮತ್ತು 10ನೇ ಮುಖ್ಯ ರಸ್ತೆ ಮತ್ತು ಸುತ್ತಮುತ್ತಲ್ಲಿನ ರಸ್ತೆಗಳು ಹಾಳಾಗಿದ್ದು ವಾಹನ ಸವಾರರಿಗೆ ಮತ್ತು ಸಾರ್ವಜನಿಕರಿಗೆ ತುಂಬಾ ತೊಂದರೆಯಾಗಿರುವುದರಿಂದ ಸಾರ್ವಜನಿಕರು ಮುಖ್ಯ ಅಭಿಯಂತರರಿಗೆ ದೂರು ಸಲ್ಲಿಸಿರುತ್ತಾರೆ. ಆದ್ದರಿಂದ ಮುಖ್ಯ ಅಭಿಯಂತರರು ಕಾಮಗಾರಿಯನ್ನು ಭವನೇಶ್ವರಿನಗರದ 9ನೇ ಮುಖ್ಯರಸ್ತೆ ಮತ್ತು 10ನೇ ಮುಖ್ಯ ರಸ್ತೆ ಮತ್ತು ಸುತ್ತಮುತ್ತಲ್ಲಿನ ರಸ್ತೆಗಳನ್ನು ಸೂಚಿಸಿರುತ್ತಾರೆ. ಈ ಪ್ರದೇಶಗಳಲ್ಲಿ ರಸ್ತೆಗಳನ್ನು ಅಭಿವೃದ್ಧಿ ಪಡಿಸುವುದು ತುಂಬಾ ಅವಶ್ಯಕವಾಗಿರುತ್ತದೆ. 2020-21ನೇ ಸಾಲಿನ ಜಿಬಿಎಂಪಿ ಅಯವ್ಯಯದಲ್ಲಿ ಪಿ-3072ರಲ್ಲಿ ರೂ.99.70 ಲಕ್ಷಗಳ ಅನುದಾನವನ್ನು ಈ ಕಾಮಗಾರಿಗೆ ಮೀಸಲಿಸಲಾಗಿರುತ್ತದೆ.

ಸದರಿ ಅನುದಾನಕ್ಕೆ 2018-19ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯ ದರಪಟ್ಟಿ ಮತ್ತು ಮಾರುಕಟ್ಟೆ ದರಗಳ ಅನುಸಾರ ಈ ಕೆಳಕಂಡ ಅಂಶಗಳೊಂದಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ.99.70ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿದೆ.

1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving
2. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs
3. Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete
4. Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending
5. Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using
6. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller
7. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap Ibasalt to wet mix macadam
8. Providing and applying primer coat with bitumen emulsion on prepared surface of granular
9. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading
10. Cleaning the existing black topped surface with brooms, soft brushes and finally
11. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces
12. Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates
13. Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum
14. Cost of Haulage Excluding Loading and Unloading

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ಸಂಖ್ಯೆ. 14

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜಿಬಿಎಂಪಿ, ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ – ವಿಭಾಗ

Scanned with CamScanner
~~~~

BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work: Improvements to drains and Providing Asphalting to roads at Bhuvaneshwari Nagara 9th and 10th Main Surroundings in Ward No.14 Bagalagunte

Job Code:- 014-21-000009 — **Estimated Cost: 99.70 Lakhs**

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. (Page No. 142/ Item No. 19.1/ PWD SR 2018-19)								
	Bhuvaneshwari Nagara								
	For RCC Drain								
	3rd Cross	1	30.00	1.10	1.00	33.00			
		1	60.00	1.10	1.00	66.00			
	2nd cross (LHS) FROM 8th Main	2	190.00	1.10	1.00	418.00			
	4th cross	2	254.00	1.10	1.00	558.80			
	For Asphalt Road								
	2nd cross (LHS) FROM 8th Main	2	190.00	1.00	0.20	76.00			
	2nd cross (RHS) FROM 8th Main	2	90.00	1.00	0.20	36.00			
	4th cross	2	254.00	1.00	0.20	101.60			
						1289.40	Cum	137.80	177679.32
	Basic Rate	130.00							
	Area Weightage 6%	7.80							
	Data Rate	137.80							
2	KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6** with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18 PWD SR 2018-19)								
	Bhuvaneshwari Nagara								
	For RCC Drain								
	3rd Cross	1	30.00	1.10	0.15	4.95			
		1	60.00	1.10	0.15	9.90			
	2nd cross (LHS) FROM 8th Main	2	190.00	1.10	0.15	62.70			
	4th cross	2	254.00	1.10	0.15	83.82			
						161.37	Cum	5680.59	916676.61
	Basic Rate	5115.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue rate	1323.43	Note:- (220*300.78/50)=1323.43						
	Sub Total	5359.05							
	Area Weightage 6%	321.54							
	Grand Total	5680.59							
3	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)								
	Bhuvaneshwari Nagara								
	For RCC Drain								
	For Bottom Raft								
	3rd Cross	1	30.00	0.90	0.15	4.05			
		1	60.00	0.90	0.15	8.10			
	2nd cross (LHS) FROM 8th Main	2	190.00	0.90	0.15	51.30			
	4th cross	2	254.00	0.90	0.15	68.58			
	For RCC Wall								
	3rd Cross	2	30.00	0.15	0.60	5.40			

Scanned with CamScanner

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
		2	63.00	0.15	0.75	14.18			
	2nd cross (LHS) FROM 8th Main	4	190.00	0.15	0.60	68.40			
	4th cross	4	254.00	0.15	0.75	114.30			
						334.31	Cum	7422.96	2481531.77
	Basic Rate	6670.00							
	Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)= -1471.89						
	Add Cement cost as per Issue rate	1804.68	Note:- (300*300.78/50)=1804.68						
	Sub Total	7002.79							
	Area Weightage 6%	420.17							
	Grand Total	7422.96							
4	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 **TMT Bars Fe-500 (I No-28.8.2,P No-229 PWD SR 2018-19)**								
	Consider 65kg/Cum for RCC drain	1	334.31	65.00		21729.83			
						21.73	Tonne	71183.24	1546799.35
	Issued rate	67154.00							
	Area Weightage 6%	4029.24							
	Data Rate	71183.24							
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.**(Data Rate)**								
	Bhuvaneshwari Nagara								
	For RCC Drain								
	3rd Cross	1	30.00	0.90		27.00			
		1	60.00	0.90		54.00			
	2nd cross (LHS) FROM 8th Main	2	190.00	0.90		342.00			
	4th cross	2	254.00	0.90		457.20			
						880.20	Sqm	1867.00	1643333.40
	Data Rate	1867.00							
6	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No-147 Item no - 19.64 of KPWD SR 2018-19)**								
	Bhuvaneshwari Nagara								
	For Asphalt Road								
	2nd cross (LHS) FROM 8th Main	2	190.00	1.00		380.00			
	2nd cross (RHS) FROM 8th Main	2	90.00	1.00		180.00			
	4th cross	2	254.00	1.00		508.00			
						1068.00	Sqm	6.36	6792.48
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Data Rate	6.36							
7	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 **(Page No-158 Item no - 20.18 of KPWD SR 2018-19)**								
	Bhuvaneshwari Nagara								
	For Asphalt Road								
	2nd cross (LHS) FROM 8th Main	2	190.00	1.00	0.20	76.00			
	2nd cross (RHS) FROM 8th Main	2	90.00	1.00	0.20	36.00			
	4th cross	2	254.00	1.00	0.20	101.60			

Scanned with CamScanner

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
						213.60	Cum	2001.28	427473.41
	Basic Rate	1888.00							
	Area Weightage 6%	113.28							
	Data Rate	2001.28							
8	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.MORTH Specification No. 502 **(Page No-161 Item no - 21.6 of KPWD SR 2018-19)**								
	Bhuvaneshwari Nagara								
	For Asphalt Road								
	2nd cross (LHS) FROM 8th Main	2	190.00	1.00		380.00			
	2nd cross (RHS) FROM 8th Main	2	90.00	1.00		180.00			
	4th cross	2	254.00	1.00		508.00			
						1068.00	Sqm	33.92	36226.56
	As per Issue rate	32.00							
	Area Weightage 6%	1.92							
	Grand Total	33.92							
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen **(Page No-160 Item no - 21.17.6 of KPWD SR 2018-19)**								
	Bhuvaneshwari Nagara								
	For Asphalt Road								
	2nd cross (LHS) FROM 8th Main	2	190.00	1.00	0.05	19.00			
	2nd cross (RHS) FROM 8th Main	2	90.00	1.00	0.05	9.00			
	4th cross	2	254.00	1.00	0.05	25.40			
						53.40	Cum	7292.80	389435.52
	As per Issue rate	6880.00							
	Area Weightage 6%	412.80							
	Grand Total	7292.80							
10	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **(Page No-161 Item no - 21.2 of KPWD SR 2018-19)**								
	Bhuvaneshwari Nagara								
	For Asphalt Road								
	2nd cross (LHS) FROM 8th Main	1	190.00	4.10		779.00			
	2nd cross (RHS) FROM 8th Main	1	90.00	4.70		423.00			
	4th cross	1	254.00	4.70		1193.80			
						2395.80	Sqm	5.30	12697.74
	Basic Rate	5.00							
	Area Weightage 6%	0.30							
	Grand Total	5.30							
11	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH **(Page No-161 Item no - 21.7 of KPWD SR 2018-19)**								
	Bhuvaneshwari Nagara								
	For Asphalt Road								
	2nd cross (LHS) FROM 8th Main	1	190.00	4.10		779.00			
	2nd cross (RHS) FROM 8th Main	1	90.00	4.70		423.00			
	4th cross	1	254.00	4.70		1193.80			
						2395.80	Sqm	12.72	30474.58
	As per Issue rate	12.00							
	Area Weightage 6%	0.72							
	Grand Total	12.72							

Scanned with CamScanner

Sl No	Description of Items	No	Length (m)	Width (m)	Depth (m)	Quantity	Unit	Rate	Amount
12	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) **(P.No.171, I.No.21.78.12 of PWD BCSR 2018-19)**								
	Bhuvaneshwari Nagara								
	For Asphalt Road								
	2nd cross (LHS) FROM 8th Main	1	190.00	4.10	0.04	31.16			
	2nd cross (RHS) FROM 8th Main	1	90.00	4.70	0.04	16.92			
	4th cross	1	254.00	4.70	0.04	47.75			
						95.83	**Cum**	**8544.66**	**818851.86**
	As per Issue rate	8061.00							
	Area Weightage 6%	483.66							
	Grand Total	**8544.66**							
13	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 **(P.No.136 & I.No.17.1 PWD 18-19)**								
	Vide Item No.1								
						1289.40	**Cum**	**57.00**	**73495.80**
	Basic Rate	**57.00**							
14	KSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road **(P.No.136 & I.No.17.4 PWD 18-19)**								
	Vide Item No.14								
						1289.40	**t.km**	**25.60**	**33008.64**
	lead for earth 10 km(2*1.28*10=25.60)	**25.60**							
								Total Construction Cost	**8594477.03**
								GST Charges 12%	**1031337.24**
								Tender Premium 4%	**343779.08**
								Sub Total	**9969593.36**
								Utility Shifting, Miscellaneous and Rounding off	**3406.64**
								GRAND TOTAL	**9970000.00**
	Rupees Ninety Nine Lakh(s) Seventy Thousand Only								

Certificate

1) This Work Comes Within BBMP Limits.
2) Certified that personaly Inspected the Work Spot.
3) Certified that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 & issued rate Dated From 01/01/2021
4) Estimate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most economical way
5) This work is not include in any other program of work.

Assistant Engineer
Ward No.14

Asst. Executive Engineer
T Dasarahalli Sub division

Executive Engineer
Dasarahalli Division

ADMINISTRATIVELY SANCTIONED FOR
(Rupees Ninety nine lakh Seventy Thousand only
Under the Head of Account P-3702
Spead Development works
Registered as no EE(D.D.)/AS-194/20-21 Subject
to condiions contained in Enclosed Memo
No. EE(D.D.)/AS/194/20-21 Dt. 02.03.21
Exe. Engg
(DASARAHALLI) BBMP
AE/AE.

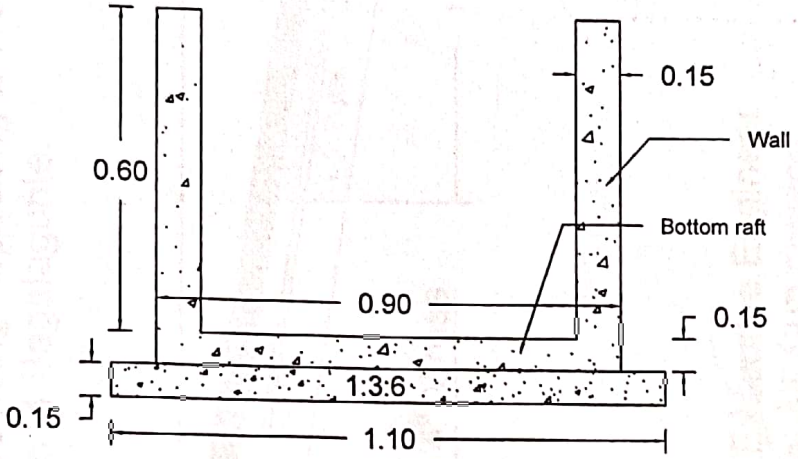
Technically Sanctione for Rs.....
Rs In words
Under
Job Code No
Registered as CE No / Subject
to conditions contained in Enclosed Memo
No / Dt.
AE/JE
Executive Engineer

PTO

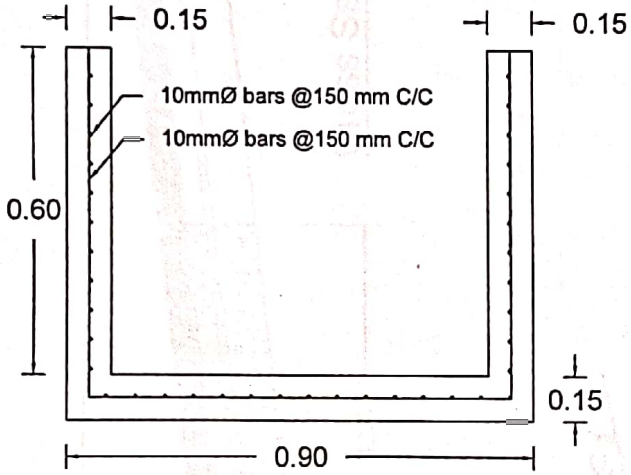
Scanned with CamScanner

Name of Work :- Improvements of Drains and Providing Asphalting to Roads at Bhuvaneshwari nagara 9th and 10th Main Surroundings in ward no14 Bagalagunte.

RCC DRAIN



Cross Section @ 1st cross



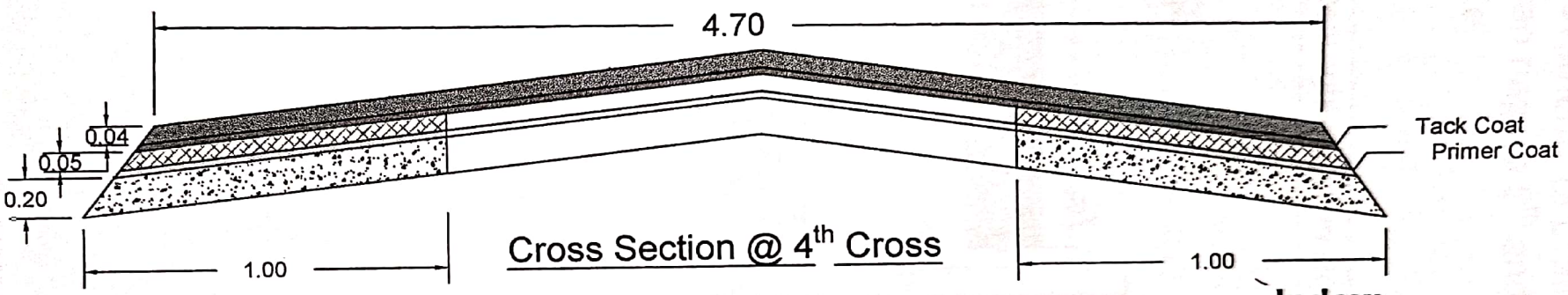
Assistant Engineer
Ward No.14

Assistant Executive Engineer
T-Dasarahalli Sub division

All Dimensions are in Meters

Scanned with CamScanner

Name of Work :- Improvements of Drains and Providing Asphalting to Roads at Bhuvaneshwari nagara 9th and 10th Main Surroundings in ward no14 Bagalagunte.



Cross Section @ 4th Cross

Index:-

- BC
- BM
- Wet Mix

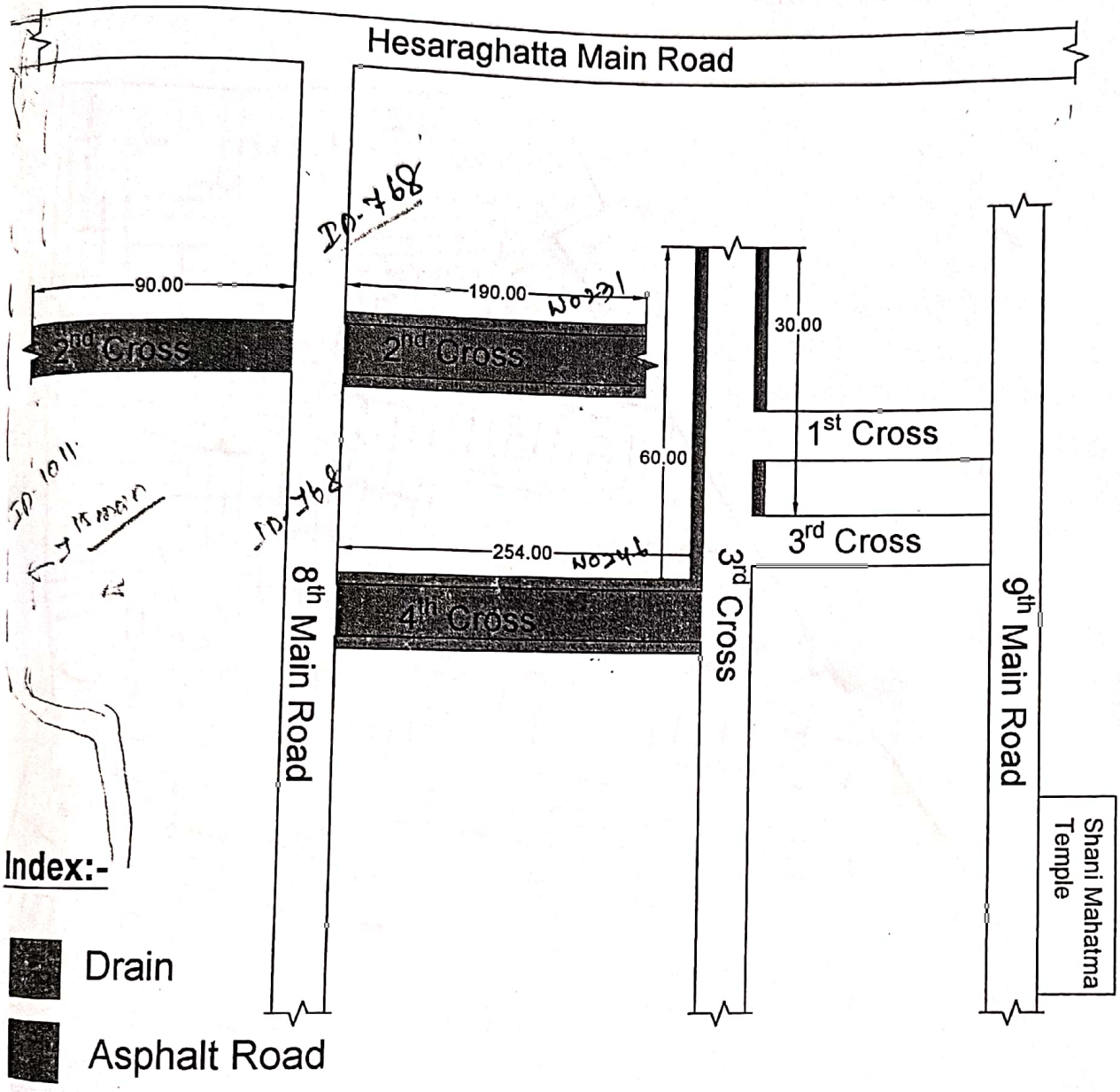
Assistant Engineer
Ward No.14

Assistant Executive Engineer
T-Dasarahalli Sub division

All Dimensions are in Meter

Scanned with CamScanner

Name of Work :- Improvements of Drains and Providing Asphalting to Roads at Bhuvaneshwari nagara 9th and 10th Main Surroundings in Ward no14 Bagalagunte.



Assistant Engineer
Ward No.14

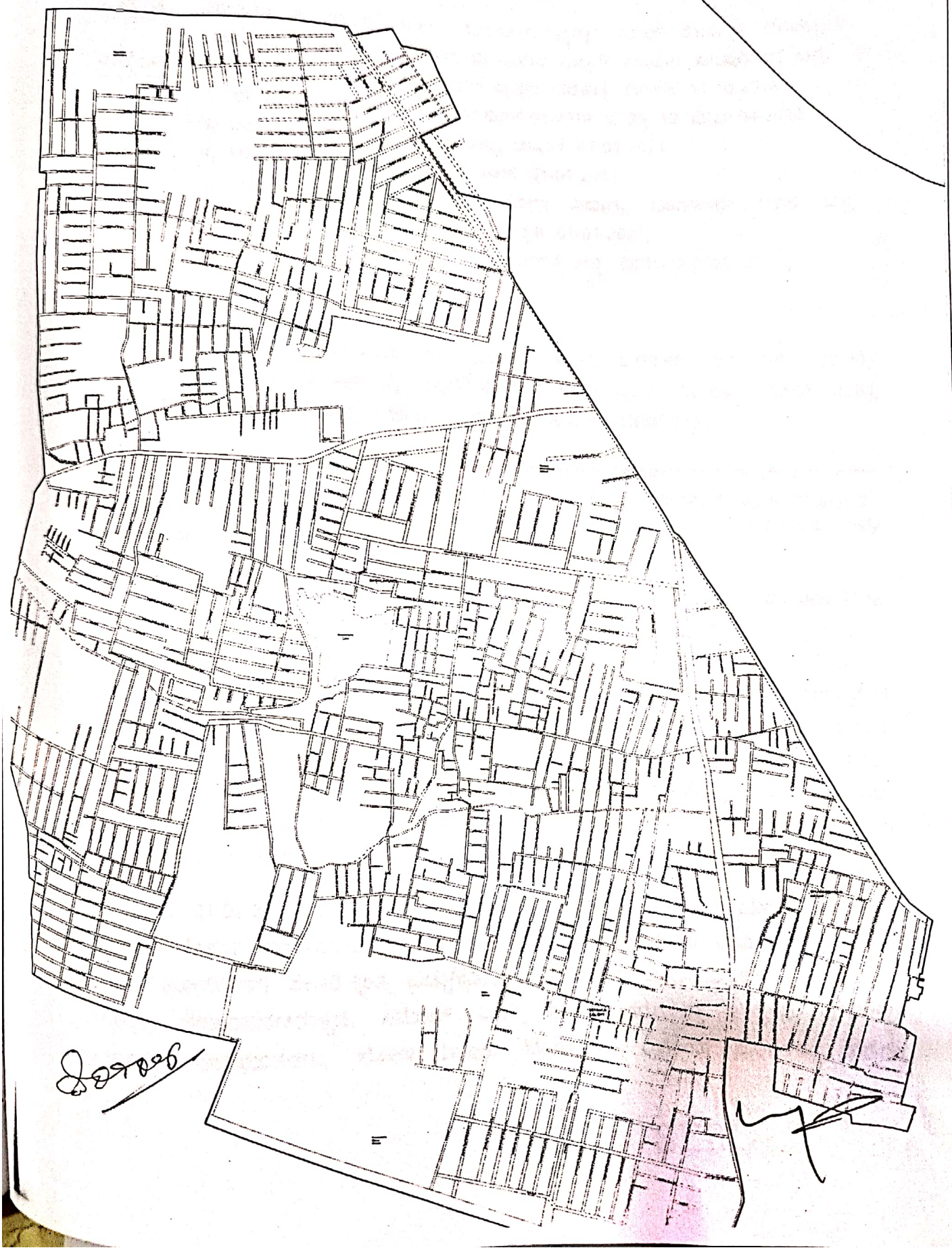
Assistant Executive Engineer
T-Dasarahalli Sub division

All dimensions are in meters

Scanned with CamScanner

BRUHAT BENGALURU MAHANAGARA PALIKE

14-BAGALAKUNTE



Scanned with CamScanner